

JOINT DECLARATION FOR PATENT APPLICATION

As the below named inventor, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled USING A RECEIVER MODEL TO MULTIPLEX VARIABLE-RATE BIT STREAMS HAVING TIMING CONSTRAINTS

the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application Number	Date of Filing (day, month, year)	Date of Issue (day, month, year)	Priority Claimed Under 35 U.S.C. §119
N/A				

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, §119(e) and 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial Number	Date of Filing (Day, Month, Year)	Status — Patented, Pending, Abandoned
N/A		

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys who are all members of the Bar of the District of Columbia, their registration numbers being listed after their names:

Donald W. Banner, Registration No. 17,037; Harold J. Birch, Registration No. 16,527; Edward F. McKie, Jr., Registration No. 17,335; William W. Beckett, Registration No. 18,262; Dale H. Hoscheit, Registration No. 19,090; Joseph M. Potenza, Registration No. 28,175; Alan I. Cantor, Registration No. 28,163; James A. Niegowski, Registration No. 28,331; Barry L. Grossman, Registration No. 30,844; Joseph M. Skerpon, Registration No. 29,864; Thomas L. Peterson, Registration No. 30,969; Nina L. Medlock, Registration No. 29,673; William J. Fisher, Registration No. 32,133; Thomas H. Jackson, Registration No. 29,808; Daniel E. Fisher, Registration No. 34,162; *Steven C. Stewart, Registration No. 33,555; and *Frederick W. Powers, III, Registration No. 25,455.

*Not admitted to DC Bar (Counsel for Scientific-Atlanta, Inc.)


And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys who are all members of the Bar of the Commonwealth of Massachusetts, their registration numbers being listed after their names:

Charles G. Call, Registration No. 20406; Peter D. McDermott, Registration No. 29411; Michael H. Shanahan, Registration No. 24438; Dale A. Malone, Registration No. 32155; Leon R. Yankwich, Registration No. 30237; John P. Iwanicki, Registration No. 34628; Gordon E. Nelson, Registration No. 30,093; Kathleen M. Williams, Registration No. 34380; Norma E. Henderson, Registration No. 39219; Thomas R. Berka, Registration No. 39606

All correspondence and telephone communications should be addressed to Banner & Witcoff, LTD., 75 State Street, Suite 2300, Boston, MA 02109, telephone number (617) 345-9100.

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We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature  Date 3/6/1997

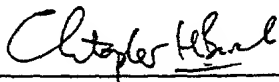
Full Name of
First Inventor Huang Si Jun
Family Name First Given Name Second Given Name

Residence 800 Yosemite Drive, Suwanee, Georgia 30174

Citizenship Singapore

Post Office

Address Same As Above

Signature  Date 14-Mar-'97

Full Name of
Second Inventor Birch Christopher H.
Family Name First Given Name Second Given Name

Residence 275 Blythwood Road, Toronto, Ontario, Canada M4N1A7

Citizenship Canada

Post Office

Address Same As Above

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JOINT ASSIGNMENT

WHEREAS WE, Si Jun Huang, 800 Yosemite Drive, Suwanee, Georgia 30174, a citizen of Singapore, and Christopher H. Birch, 275 Blythwood Road, Toronto, Ontario, Canada M4N1A7, a citizen of Canada, are the inventors of certain inventions or improvements for which we have made application for Letters Patent of the United States entitled, **"USING A RECEIVER MODEL TO MULTIPLEX VARIABLE-RATE BIT STREAMS HAVING TIMING CONSTRAINTS"**, Attorney Docket No. 01263.01598, filed herewith; and

WHEREAS, Scientific-Atlanta, Inc., of One Technology Parkway, South, Norcross, Georgia 30092, a corporation of Georgia, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW THEREFORE, for good and valuable consideration, we have assigned, and do hereby assign, to Scientific-Atlanta, Inc., its successors, assigns and legal representatives ("Nominees") the entire right, title and interest in and to said inventions or improvements throughout the world and to said application and any and all Letters Patent and utility model patents which may be granted therefor, and all continuations, divisions, reissues, extensions and renewals thereof ("Letters Patent");

AND WE covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement or do anything in conflict herewith;

AND WE FURTHER covenant and agree that we will without undue delay execute all such papers as may be necessary to perfect the title to said inventions or improvements, application and Letters Patent in Scientific-Atlanta, Inc., or its Nominees, and we agree to communicate to said Scientific-Atlanta, Inc., or its Nominees all known facts respecting said inventions or improvements, application and Letters Patent, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid Scientific-Atlanta, Inc., or its Nominees to obtain and enforce for their own benefit patent protection for said inventions or improvements in any and all countries, all at the expense, however, of Scientific-Atlanta, Inc., or its Nominees;

AND WE authorize Scientific-Atlanta, Inc. or its Nominees to file in our names or their own, an appropriate application for Letters Patent in all countries of the world, and we authorize and request the Commissioner of Patents and Trademarks of the United States, and any proper official of any country, to issue to said Scientific-Atlanta, Inc., or its Nominees any and all Letters Patent for said inventions or improvements, for their sole use, to the full end of the term for which such Letters Patent may be granted.

AND WE further grant our attorneys, at the firm of BANNER & WITCOFF, LTD., the power to insert on this assignment document here in parenthesis, (Application Serial No.: _____, filed on the _____ day of _____, 19____), the filing date, application number and such other identification as may be necessary and desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF I have hereunto set my hand and seal this 11 day of February, 1998
SJH
Si Jun Huang (SEAL)

County of: Gwinnett)
State of: Georgia) ss:

On this 11 day of February, 1998, before me personally came the above named Si Jun Huang, personally known to me or satisfactorily proven to be the same individual who executed the foregoing Assignment of his own free will for the use and purpose therein set forth.

Rosetta Ann Bailey
Notary Public

My Commission Expires:

Notary Public, Gwinnett County, Georgia
My Commission Expires February 3, 1998

IN WITNESS WHEREOF I have hereunto set my hand and seal this 17 day of February, 1998
ChB.
Christopher H. Birch (SEAL)
Christopher H. Birch

JUDICIAL DISTRICT
County of: YORK)
PROVINCE) ss:
State of: ONTARIO)

On this 17 day of FEBRUARY, 1998, before me personally came the above named Christopher H. Birch personally known to me or satisfactorily proven to be the same individual who executed the foregoing Assignment of his own free will for the use and purpose therein set forth.

Bryon C Cohen
Notary Public Bryon C Cohen

My Commission Expires: No Expiry